

WEST Search History

DATE: Saturday, March 03, 2007

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	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L14	((5481191.pn.) or (5572131.pn.) or (6011394.pn.) or (6311389.pn.))	7
<input type="checkbox"/>	L13	L12 and (cool\$3 with gradient)	23
<input type="checkbox"/>	L12	L11 and (gradient with coil)	63
<input type="checkbox"/>	L11	L10 and ((inner or outer or primary or secondary or first or second or internal or inside or external or outside) same ((shield or shielding or shielded) same (coil or antenna or probe or winding)))	123
<input type="checkbox"/>	L10	L9 and ((cool\$3) same (fluid or collant or water or air or liquid) same (hollow or channel or conduit))	175
<input type="checkbox"/>	L9	L8 and (fluid or collant or water or air or liquid)	654
<input type="checkbox"/>	L8	L7 and (cool\$3)	716
<input type="checkbox"/>	L7	L6 and (hollow or channel or conduit)	1618
<input type="checkbox"/>	L6	L5 and ((shield or shielding or shielded) same (coil or antenna or probe or winding))	4427
<input type="checkbox"/>	L5	L4 and (coil or antenna or probe or winding)	9243
<input type="checkbox"/>	L4	L3 and (shield or shielding or shielded)	14328
<input type="checkbox"/>	L3	((magnetic adj resonan\$2) or MRI or NMR)	246896
<input type="checkbox"/>	L2	L1 and (cool\$3 with gradient)	6
<input type="checkbox"/>	L1	((biplanar or bi-planar) with (gradient with coil))	43

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☐ 1. Document ID: US 6311389 B1

L14: Entry 1 of 7

File: USPT

Nov 6, 2001

US-PAT-NO: 6311389

DOCUMENT-IDENTIFIER: US 6311389 B1

TITLE: Gradient magnetic coil apparatus and method of manufacturing the same

DATE-ISSUED: November 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Uosaki; Yasuhiro	Nasu-gun			JP
Watanabe; Kunio	Nasu-gun			JP
Yamashita; Masatoshi	Otawara			JP
Sakakura; Yoshitomo	Nasu-gun			JP

US-CL-CURRENT: 29/605; 29/606

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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☐ 2. Document ID: US 6011394 A

L14: Entry 2 of 7

File: USPT

Jan 4, 2000

US-PAT-NO: 6011394

DOCUMENT-IDENTIFIER: US 6011394 A

TITLE: Self-shielded gradient coil assembly and method of manufacturing the same

DATE-ISSUED: January 4, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Petropoulos; Labros S.	Solon	OH		
Payton; Clarence E.	Chagrin Falls	OH		
Morich; Michael A.	Mentor	OH		
DeMeester; Gordon D.	Wickliffe	OH		

US-CL-CURRENT: 324/318; 324/320

Full	Title	Citation	Front	Review	Classification	Date	Reference	Image	Abstract	Claims	K/MC	Draw. De
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☐ 3. Document ID: US 5572131 A

L14: Entry 3 of 7

File: USPT

Nov 5, 1996

US-PAT-NO: 5572131

DOCUMENT-IDENTIFIER: US 5572131 A

**** See image for Certificate of Correction ****

TITLE: Shielded gradient coil for nuclear magnetic resonance imaging

DATE-ISSUED: November 5, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rzedzian; Richard	Lexington	MA		

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Image	Abstract	Claims	K/MC	Draw. De
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☐ 4. Document ID: US 5481191 A

L14: Entry 4 of 7

File: USPT

Jan 2, 1996

US-PAT-NO: 5481191

DOCUMENT-IDENTIFIER: US 5481191 A

**** See image for Certificate of Correction ****

TITLE: Shielded gradient coil for nuclear magnetic resonance imaging

DATE-ISSUED: January 2, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rzedzian; Richard	Lexington	MA		

US-CL-CURRENT: 324/318; 29/606

Full	Title	Citation	Front	Review	Classification	Date	Reference	Image	Abstract	Claims	K/MC	Draw. De
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☐ 5. Document ID: JP 2000082627 A, US 6311389 B1

L14: Entry 5 of 7

File: DWPI

Mar 21, 2000

DERWENT-ACC-NO: 2000-288632

DERWENT-WEEK: 200170

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TITLE: Production of gradient magnetic field coil for magnetic resonance imaging, involves forming spiral coil winding pattern on copper plate by cutting and removing unnecessary copper plate other than coil winding

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Abstract	Claims	KMC	Draw. De
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☐ 6. Document ID: EP 896228 A1, US 6011394 A, JP 11128203 A

L14: Entry 6 of 7

File: DWPI

Feb 10, 1999

DERWENT-ACC-NO: 1999-123397

DERWENT-WEEK: 200008

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TITLE: Self-Shielded gradient coil assembly e.g. for MRI apparatus - has single former defining imaging region within which imaged portion of subject is received and primary gradient coils are position over RF ground screen which is bonded to former

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Abstract	Claims	KMC	Draw. De
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☐ 7. Document ID: WO 9119994 A, US 5572131 A, EP 532704 A1, EP 532704 A4, US 5481191 A, DE 69116556 E

L14: Entry 7 of 7

File: DWPI

Dec 26, 1991

DERWENT-ACC-NO: 1992-024563

DERWENT-WEEK: 199650

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TITLE: Shielded gradient coil for NMR imaging - uses cylindrical layers with longitudinal and circumferential conducting strips with transition region between strips

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Abstract	Claims	KMC	Draw. De
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Term	Documents
"5481191"	3
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"5572131"	2
5572131S	0
"6011394"	2
6011394S	0
"6311389"	2
6311389S	0

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((5481191.PN.) OR (5572131.PN.) OR (6011394.PN.) OR (6311389.PN.))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	7

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☐ 1. Document ID: US 20060266053 A1

L13: Entry 1 of 23

File: PGPB

Nov 30, 2006

PGPUB-DOCUMENT-NUMBER: 20060266053

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060266053 A1

TITLE: APPARATUS FOR THERMAL SHIELDING OF A SUPERCONDUCTING MAGNET

PUBLICATION-DATE: November 30, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Jiang; Longzhi	Florence	SC	US
Lehmann; Gregory Alan	Brookfield	WI	US
Clarke; Neil	Oxford		GB

US-CL-CURRENT: 62/51.1; 165/132, 165/135

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 2. Document ID: US 20060176056 A1

L13: Entry 2 of 23

File: PGPB

Aug 10, 2006

PGPUB-DOCUMENT-NUMBER: 20060176056

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060176056 A1

TITLE: NMR CryoMAS Probe for High-field Wide-bore Magnets

PUBLICATION-DATE: August 10, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Doty; F. David	Columbia	SC	US
Shevgoor; Siddarth	Columbia	SC	US

US-CL-CURRENT: 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 3. Document ID: US 20050179512 A1

L13: Entry 3 of 23

File: PGPB

Aug 18, 2005

PGPUB-DOCUMENT-NUMBER: 20050179512
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050179512 A1

TITLE: MRI SYSTEM WITH LIQUID COOLED RF SPACE

PUBLICATION-DATE: August 18, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Weyers, Daniel J.	Brookfield	WI	US
Linz, Anton M.	Mukwongago	WI	US
McKinnon, Graeme C.	Hartland	WI	US
Boskamp, Ed B.	Menomonee Falls	WI	US
Dachniwskyj, Roman I.	Pewaukee	WI	US
Sellers, Michael B.	Florence	SC	US
Manton, Anthony	Florence	SC	US

US-CL-CURRENT: 335/300

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 4. Document ID: US 20050146330 A1

L13: Entry 4 of 23

File: PGPB

Jul 7, 2005

PGPUB-DOCUMENT-NUMBER: 20050146330
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050146330 A1

TITLE: Cylindrical bi-planar gradient coil for MRI

PUBLICATION-DATE: July 7, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Teklemariam, Grum	North Andover	MA	US
Lian, Jianyu	Westford	MA	US

US-CL-CURRENT: 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 5. Document ID: US 20050035764 A1

L13: Entry 5 of 23

File: PGPB

Feb 17, 2005

PGPUB-DOCUMENT-NUMBER: 20050035764

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050035764 A1

TITLE: METHOD AND APPARATUS FOR DIRECTLY COOLING HOLLOW CONDUCTOR WOUND TRANSVERSE
GRADIENT COIL BOARDS

PUBLICATION-DATE: February 17, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Mantone, Anthony	Florence	SC	US
Clarke, Neil	Florence	SC	US
Duby, Tomas	Florence	SC	US
Liu, Qin	Waukesha	WI	US
Sellers, Michael B.	Florence	SC	US

US-CL-CURRENT: 324/318; 324/309, 324/315

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. D
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☐ 6. Document ID: US 20050030027 A1

L13: Entry 6 of 23

File: PGPB

Feb 10, 2005

PGPUB-DOCUMENT-NUMBER: 20050030027

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050030027 A1

TITLE: Magnetic resonance device comprising an eddy-current generator

PUBLICATION-DATE: February 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Dietz, Peter	Nurnberg		DE

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. D
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☐ 7. Document ID: US 20020073717 A1

L13: Entry 7 of 23

File: PGPB

Jun 20, 2002

PGPUB-DOCUMENT-NUMBER: 20020073717

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020073717 A1

TITLE: MR scanner including liquid cooled RF coil and method

PUBLICATION-DATE: June 20, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Dean, David E.	Hartland	WI	US
Assif, Benny	Ramat Hasharon		IL
Hugg, James W.	Kiryat Hayim		IL

US-CL-CURRENT: 62/50.7; 62/259.2, 62/51.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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8. Document ID: US 20020008518 A1

L13: Entry 8 of 23

File: PGPB

Jan 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020008518

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020008518 A1

TITLE: Magnetic resonance apparatus having an optical fiber with a bragg grating for measuring mechanical deformations

PUBLICATION-DATE: January 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Arz, Winfried	Erlangen		DE
Drobnitzky, Matthias	Spardorf		DE

US-CL-CURRENT: 324/322; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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9. Document ID: US 20010019266 A1

L13: Entry 9 of 23

File: PGPB

Sep 6, 2001

PGPUB-DOCUMENT-NUMBER: 20010019266

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010019266 A1

TITLE: Magnetic resonance apparatus having a single-circuit cooling circulation system

PUBLICATION-DATE: September 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Nerreter, Ulrich	Nuernberg		DE

US-CL-CURRENT: 324/322; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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10. Document ID: US 6812705 B1

L13: Entry 10 of 23

File: USPT

Nov 2, 2004

US-PAT-NO: 6812705

DOCUMENT-IDENTIFIER: US 6812705 B1

TITLE: Coolant cooled RF body coil

DATE-ISSUED: November 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sellers; Michael Ben	Florence	SC		

US-CL-CURRENT: 324/318; 324/315

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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11. Document ID: US 6741152 B1

L13: Entry 11 of 23

File: USPT

May 25, 2004

US-PAT-NO: 6741152

DOCUMENT-IDENTIFIER: US 6741152 B1

TITLE: Directly cooled magnetic coil, particularly a gradient coil, and method for manufacturing conductors therefor

DATE-ISSUED: May 25, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arz; Winfried	Erlangen			DE
Stocker; Stefan	Erlangen			DE

US-CL-CURRENT: 335/300; 174/15.1, 174/15.6, 174/47, 336/62

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 12. Document ID: US 6636041 B2

L13: Entry 12 of 23

File: USPT

Oct 21, 2003

US-PAT-NO: 6636041

DOCUMENT-IDENTIFIER: US 6636041 B2

TITLE: Magnetic resonance apparatus having an optical fiber with a Bragg grating for measuring mechanical deformations

DATE-ISSUED: October 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arz; Winfried	Erlangen			DE
Drobnitzky; Matthias	Spardorf			DE

US-CL-CURRENT: 324/322; 324/300, 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	K/MC	Drawings
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☐ 13. Document ID: US 6525537 B2

L13: Entry 13 of 23

File: USPT

Feb 25, 2003

US-PAT-NO: 6525537

DOCUMENT-IDENTIFIER: US 6525537 B2

TITLE: Magnetic resonance apparatus having a single-circuit cooling circulation system

DATE-ISSUED: February 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nerreter; Ulrich	Nuremberg			DE

US-CL-CURRENT: 324/322; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	K/MC	Drawings
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☐ 14. Document ID: US 6441614 B1

L13: Entry 14 of 23

File: USPT

Aug 27, 2002

US-PAT-NO: 6441614

DOCUMENT-IDENTIFIER: US 6441614 B1

TITLE: Filler material for magnet resonant system self-shielded gradient coil assemblies

DATE-ISSUED: August 27, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Edelstein; William Alan	Schenectady	NY		
Hedeen; Robert Arvin	Clifton Park	NY		
Mantone; Anthony	Brookfield	WI		

US-CL-CURRENT: 324/318; 324/307, 324/309, 324/320, 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Searches	Related	Claims	KWC	Draw. De
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☐ 15. Document ID: US 6111412 A

L13: Entry 15 of 23

File: USPT

Aug 29, 2000

US-PAT-NO: 6111412

DOCUMENT-IDENTIFIER: US 6111412 A

TITLE: Gradient coil assembly and method of production of same

DATE-ISSUED: August 29, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Boemmel; Franz	Erlangen			DE
Schuster; Johann	Oberasbach			DE
Kaindl; Arthur	Erlangen			DE

US-CL-CURRENT: 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Searches	Related	Claims	KWC	Draw. De
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☐ 16. Document ID: US 6011394 A

L13: Entry 16 of 23

File: USPT

Jan 4, 2000

US-PAT-NO: 6011394

DOCUMENT-IDENTIFIER: US 6011394 A

TITLE: Self-shielded gradient coil assembly and method of manufacturing the same

DATE-ISSUED: January 4, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Petropoulos; Labros S.	Solon	OH		
Payton; Clarence E.	Chagrin Falls	OH		
Morich; Michael A.	Mentor	OH		

DeMeester; Gordon D.

Wickliffe

OH

US-CL-CURRENT: 324/318; 324/320

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 17. Document ID: US 5793209 A

L13: Entry 17 of 23

File: USPT

Aug 11, 1998

US-PAT-NO: 5793209

DOCUMENT-IDENTIFIER: US 5793209 A

TITLE: Nuclear magnetic resonance imaging apparatus using asymmetric torque-free active shield gradient coils

DATE-ISSUED: August 11, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kondo; Masafumi	Kanagawa-ken			JP
Yui; Masao	Kanagawa-ken			JP

US-CL-CURRENT: 324/318; 600/422

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 18. Document ID: US 5701075 A

L13: Entry 18 of 23

File: USPT

Dec 23, 1997

US-PAT-NO: 5701075

DOCUMENT-IDENTIFIER: US 5701075 A

TITLE: Magnetic resonance imaging shimming by superconducting gradient shield

DATE-ISSUED: December 23, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Xu; Bu-Xin	Florence	SC		
Tsavalas; Yannis P.	Clifton Park	NY		

US-CL-CURRENT: 324/318; 335/301

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 19. Document ID: US 5661445 A

L13: Entry 19 of 23

File: USPT

Aug 26, 1997

US-PAT-NO: 5661445

DOCUMENT-IDENTIFIER: US 5661445 A

TITLE: Superconductive magnet assembly

DATE-ISSUED: August 26, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Larson, III; John D.	Palo Alto	CA		
Good; Jeremy A.	London			GB

US-CL-CURRENT: 335/216; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K/MC	Draw. De
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□ 20. Document ID: US 5539367 A

L13: Entry 20 of 23

File: USPT

Jul 23, 1996

US-PAT-NO: 5539367

DOCUMENT-IDENTIFIER: US 5539367 A

TITLE: Superconducting gradient shields in magnetic resonance imaging magnets

DATE-ISSUED: July 23, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Xu; Bu-Xin	Florence	SC		
Tsavalas; Yannis P.	Florence	SC		
Eckels; Phillip W.	Florence	SC		

US-CL-CURRENT: 335/301; 324/318, 335/216, 361/19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K/MC	Draw. De
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□ 21. Document ID: US 5424643 A

L13: Entry 21 of 23

File: USPT

Jun 13, 1995

US-PAT-NO: 5424643

DOCUMENT-IDENTIFIER: US 5424643 A

TITLE: Magnetic resonance gradient sheet coils

DATE-ISSUED: June 13, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Morich; Michael A.	Mentor	OH		
Patrick; John L.	Chagrin Falls	OH		
DeMeester; Gordon D.	Wickliffe	OH		

US-CL-CURRENT: 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw De
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☐ 22. Document ID: US 5201184 A

L13: Entry 22 of 23

File: USPT

Apr 13, 1993

US-PAT-NO: 5201184

DOCUMENT-IDENTIFIER: US 5201184 A

TITLE: Method and apparatus for precooling the helium tank of a cryostat

DATE-ISSUED: April 13, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Roth; Gerhard	Karlsruhe			DE

US-CL-CURRENT: 62/47.1; 62/50.2, 62/51.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw De
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☐ 23. Document ID: US 4660013 A

L13: Entry 23 of 23

File: USPT

Apr 21, 1987

US-PAT-NO: 4660013

DOCUMENT-IDENTIFIER: US 4660013 A

TITLE: Compact whole body resistive magnetic resonance imaging magnet

DATE-ISSUED: April 21, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Laskaris; Evangelos T.	Schenectady	NY		
Chari; Madabushi V.	Burnt Hills	NY		

US-CL-CURRENT: 335/299; 324/318, 335/301

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw De
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Term	Documents
GRADIENT	332685
GRADIENTS	81772
COOL\$3	0
COOL	570601
COOLA	900
COOLAA	1
COOLAAT	18
COOLAA7	1
COOLAB	2
COOLABD	1
COOLABL	2
(L12 AND (COOL\$3 WITH GRADIENT)) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	23

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DATE: Saturday, March 03, 2007

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	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L30	L29 and (cool\$3 with gradient)	6
<input type="checkbox"/>	L29	((biplanar or bi-planar) with (gradient with coil))	43
	<i>DB=USPT,PGPB; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L28	('5492122' '5680086' '5793209' '6100693' '6361661' '6538440' '6812705' '6825664' '6906517' '6909283' '20020073717')![pn]	11
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L27	L26 and (cool\$3 with gradient)	0
<input type="checkbox"/>	L26	6788057	7
<input type="checkbox"/>	L25	L24 and (cool\$3 with (channel or conduit))	30
<input type="checkbox"/>	L24	L23 and (layer)	655
<input type="checkbox"/>	L23	L22 and (epoxy or adhesive or glu\$3 or resin)	790
<input type="checkbox"/>	L22	L21 and ((magnetic adj resonance) or MRI or NMR)	1399
<input type="checkbox"/>	L21	(cool\$3 with gradient)	16698
<input type="checkbox"/>	L20	L19 and (cool\$3 with gradient)	1
<input type="checkbox"/>	L19	L18 and ((magnetic adj resonance) or MRI or NMR)	59
<input type="checkbox"/>	L18	nistler.in.	129
<input type="checkbox"/>	L17	L15 and (epoxy or adhesive or glu\$3 or resin)	14
<input type="checkbox"/>	L16	L15 and (epoxy or adhesive or glu\$3)	8
<input type="checkbox"/>	L15	L14 and (cooling with gradient)	29
<input type="checkbox"/>	L14	L13 and ((magnetic adj resonance) or MRI or NMR)	150
<input type="checkbox"/>	L13	Schuster.in.	6212
<input type="checkbox"/>	L12	L11 and (cooling with gradient)	19
<input type="checkbox"/>	L11	L10 and ((magnetic adj resonance) or MRI or NMR)	115
<input type="checkbox"/>	L10	stocker.in.	1535
<input type="checkbox"/>	L9	L8 and ((magnetic adj resonance) or MRI or NMR)	10
<input type="checkbox"/>	L8	(direct with cooling with gradient)	139
	<i>DB=USPT,PGPB; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L7	('4864241' '5331281' '5574372' '6531870' '6798203' '6842003' '6850206' '6906520' '6930482' '20020105329' '20020145428' '20030109783' '20030184298' '20040239327' '20050073311' '20050073312')![pn]	16
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>		

<input type="checkbox"/>	L6	7098661	3
<input type="checkbox"/>	L5	20040066195	3
<input type="checkbox"/>	L4	L3 and (telescop\$4)	1
<input type="checkbox"/>	L3	wohlfarth.in.	250
<input type="checkbox"/>	L2	L1 and (visser.in.)	6
<input type="checkbox"/>	L1	hoogeveen.in.	83

END OF SEARCH HISTORY

WEST Search History

DATE: Saturday, March 03, 2007

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L13	L12 and (cool\$3 with gradient)	23
<input type="checkbox"/>	L12	L11 and (gradient with coil)	63
<input type="checkbox"/>	L11	L10 and ((inner or outer or primary or secondary or first or second or internal or inside or external or outside) same ((shield or shielding or shielded) same (coil or antenna or probe or winding)))	123
<input type="checkbox"/>	L10	L9 and ((cool\$3) same (fluid or collant or water or air or liquid) same (hollow or channel or conduit))	175
<input type="checkbox"/>	L9	L8 and (fluid or collant or water or air or liquid)	654
<input type="checkbox"/>	L8	L7 and (cool\$3)	716
<input type="checkbox"/>	L7	L6 and (hollow or channel or conduit)	1618
<input type="checkbox"/>	L6	L5 and ((shield or shielding or shielded) same (coil or antenna or probe or winding))	4427
<input type="checkbox"/>	L5	L4 and (coil or antenna or probe or winding)	9243
<input type="checkbox"/>	L4	L3 and (shield or shielding or shielded)	14328
<input type="checkbox"/>	L3	((magnetic adj resonan\$2) or MRI or NMR)	246896
<input type="checkbox"/>	L2	L1 and (cool\$3 with gradient)	6
<input type="checkbox"/>	L1	((biplanar or bi-planar) with (gradient with coil))	43

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 6 of 6 returned.

☐ 1. Document ID: US 20050162167 A1

L2: Entry 1 of 6

File: PGPB

Jul 28, 2005

PGPUB-DOCUMENT-NUMBER: 20050162167

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050162167 A1

TITLE: Generator of a time-variable magnetic field and magnetic resonance device

PUBLICATION-DATE: July 28, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Heid, Oliver	Gunzenhausen		DE
Vester, Markus	Numberg		DE

US-CL-CURRENT: [324/318](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 2. Document ID: US 20050146330 A1

L2: Entry 2 of 6

File: PGPB

Jul 7, 2005

PGPUB-DOCUMENT-NUMBER: 20050146330

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050146330 A1

TITLE: Cylindrical bi-planar gradient coil for MRI

PUBLICATION-DATE: July 7, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Teklemariam, Grum	North Andover	MA	US
Lian, Jianyu	Westford	MA	US

US-CL-CURRENT: [324/318](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 3. Document ID: US 5939882 A

L2: Entry 3 of 6

File: USPT

Aug 17, 1999

US-PAT-NO: 5939882

DOCUMENT-IDENTIFIER: US 5939882 A

TITLE: Gradient coil arrangement for a nuclear magnetic resonance tomography apparatus

DATE-ISSUED: August 17, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gebhardt; Matthias	Erlangen			DE
Boemmel; Franz	Erlangen			DE

US-CL-CURRENT: 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Figures	Abstract	Claims	KMC	Draw D
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☐ 4. Document ID: US 5655533 A

L2: Entry 4 of 6

File: USPT

Aug 12, 1997

US-PAT-NO: 5655533

DOCUMENT-IDENTIFIER: US 5655533 A

TITLE: Actively shielded orthogonal gradient coils for wrist imaging

DATE-ISSUED: August 12, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Petropoulos; Labros	Cleveland Heights	OH		
Patrick; John L.	Chagrin Falls	OH		
Morich; Michael A.	Mentor	OH		

US-CL-CURRENT: 600/422; 324/318, 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Figures	Abstract	Claims	KMC	Draw D
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☐ 5. Document ID: US 5581185 A

L2: Entry 5 of 6

File: USPT

Dec 3, 1996

US-PAT-NO: 5581185

DOCUMENT-IDENTIFIER: US 5581185 A

TITLE: Torque-balanced gradient coils for magnetic resonance imaging

DATE-ISSUED: December 3, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Petropoulos; Labros	Cleveland Heights	OH		
Patrick; John L.	Chagrin Falls	OH		
Morich; Michael A.	Mentor	OH		

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 6. Document ID: US 20050146330 A1, WO 2005029111 A1

L2: Entry 6 of 6

File: DWPI

Jul 7, 2005

DERWENT-ACC-NO: 2005-305846

DERWENT-WEEK: 200547

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TITLE: Cylindrical bi-planar gradient coil assembly for open magnetic resonance imaging system, has set of primary coils placed flat above cylindrical planar substrates, and cooling tubes, shims and shield layers placed in sequential order

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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Term	Documents
GRADIENT	332685
GRADIENTS	81772
COOL\$3	0
COOL	570601
COOLA	900
COOLAA	1
COOLAAT	18
COOLAA7	1
COOLAB	2
COOLABD	1
(L1 AND (COOL\$3 WITH GRADIENT)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	6

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☐ 1. Document ID: US 20060266053 A1

L13: Entry 1 of 23

File: PGPB

Nov 30, 2006

PGPUB-DOCUMENT-NUMBER: 20060266053

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060266053 A1

TITLE: APPARATUS FOR THERMAL SHIELDING OF A SUPERCONDUCTING MAGNET

PUBLICATION-DATE: November 30, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Jiang; Longzhi	Florence	SC	US
Lehmann; Gregory Alan	Brookfield	WI	US
Clarke; Neil	Oxford		GB

US-CL-CURRENT: 62/51.1; 165/132, 165/135

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 2. Document ID: US 20060176056 A1

L13: Entry 2 of 23

File: PGPB

Aug 10, 2006

PGPUB-DOCUMENT-NUMBER: 20060176056

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060176056 A1

TITLE: NMR CryoMAS Probe for High-field Wide-bore Magnets

PUBLICATION-DATE: August 10, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Doty; F. David	Columbia	SC	US
Shevgoor; Siddarth	Columbia	SC	US

US-CL-CURRENT: 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 3. Document ID: US 20050179512 A1

L13: Entry 3 of 23

File: PGPB

Aug 18, 2005

PGPUB-DOCUMENT-NUMBER: 20050179512
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050179512 A1

TITLE: MRI SYSTEM WITH LIQUID COOLED RF SPACE

PUBLICATION-DATE: August 18, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Weyers, Daniel J.	Brookfield	WI	US
Linz, Anton M.	Mukwongago	WI	US
McKinnon, Graeme C.	Hartland	WI	US
Boskamp, Ed B.	Menomonee Falls	WI	US
Dachniwskyj, Roman I.	Pewaukee	WI	US
Sellers, Michael B.	Florence	SC	US
Manton, Anthony	Florence	SC	US

US-CL-CURRENT: 335/300

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 4. Document ID: US 20050146330 A1

L13: Entry 4 of 23

File: PGPB

Jul 7, 2005

PGPUB-DOCUMENT-NUMBER: 20050146330
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050146330 A1

TITLE: Cylindrical bi-planar gradient coil for MRI

PUBLICATION-DATE: July 7, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Teklemariam, Grum	North Andover	MA	US
Lian, Jianyu	Westford	MA	US

US-CL-CURRENT: 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 5. Document ID: US 20050035764 A1

L13: Entry 5 of 23

File: PGPB

Feb 17, 2005

PGPUB-DOCUMENT-NUMBER: 20050035764
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050035764 A1

TITLE: METHOD AND APPARATUS FOR DIRECTLY COOLING HOLLOW CONDUCTOR WOUND TRANSVERSE
GRADIENT COIL BOARDS

PUBLICATION-DATE: February 17, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Mantone, Anthony	Florence	SC	US
Clarke, Neil	Florence	SC	US
Duby, Tomas	Florence	SC	US
Liu, Qin	Waukesha	WI	US
Sellers, Michael B.	Florence	SC	US

US-CL-CURRENT: 324/318; 324/309, 324/315

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 6. Document ID: US 20050030027 A1

L13: Entry 6 of 23

File: PGPB

Feb 10, 2005

PGPUB-DOCUMENT-NUMBER: 20050030027
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050030027 A1

TITLE: Magnetic resonance device comprising an eddy-current generator

PUBLICATION-DATE: February 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Dietz, Peter	Nurnberg		DE

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 7. Document ID: US 20020073717 A1

L13: Entry 7 of 23

File: PGPB

Jun 20, 2002

PGPUB-DOCUMENT-NUMBER: 20020073717
PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020073717 A1

TITLE: MR scanner including liquid cooled RF coil and method

PUBLICATION-DATE: June 20, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Dean, David E.	Hartland	WI	US
Assif, Benny	Ramat Hasharon		IL
Hugg, James W.	Kiryat Hayim		IL

US-CL-CURRENT: 62/50.7; 62/259.2, 62/51.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 8. Document ID: US 20020008518 A1

L13: Entry 8 of 23

File: PGPB

Jan 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020008518

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020008518 A1

TITLE: Magnetic resonance apparatus having an optical fiber with a bragg grating for measuring mechanical deformations

PUBLICATION-DATE: January 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Arz, Winfried	Erlangen		DE
Drobnitzky, Matthias	Spardorf		DE

US-CL-CURRENT: 324/322; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 9. Document ID: US 20010019266 A1

L13: Entry 9 of 23

File: PGPB

Sep 6, 2001

PGPUB-DOCUMENT-NUMBER: 20010019266

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010019266 A1

TITLE: Magnetic resonance apparatus having a single-circuit cooling circulation system

PUBLICATION-DATE: September 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Nerreter, Ulrich	Nuernberg		DE

US-CL-CURRENT: 324/322; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
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☐ 10. Document ID: US 6812705 B1

L13: Entry 10 of 23

File: USPT

Nov 2, 2004

US-PAT-NO: 6812705

DOCUMENT-IDENTIFIER: US 6812705 B1

TITLE: Coolant cooled RF body coil

DATE-ISSUED: November 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sellers; Michael Ben	Florence	SC		

US-CL-CURRENT: 324/318; 324/315

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
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☐ 11. Document ID: US 6741152 B1

L13: Entry 11 of 23

File: USPT

May 25, 2004

US-PAT-NO: 6741152

DOCUMENT-IDENTIFIER: US 6741152 B1

TITLE: Directly cooled magnetic coil, particularly a gradient coil, and method for manufacturing conductors therefor

DATE-ISSUED: May 25, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arz; Winfried	Erlangen			DE
Stocker; Stefan	Erlangen			DE

US-CL-CURRENT: 335/300; 174/15.1, 174/15.6, 174/47, 336/62

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
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☐ 12. Document ID: US 6636041 B2

L13: Entry 12 of 23

File: USPT

Oct 21, 2003

US-PAT-NO: 6636041

DOCUMENT-IDENTIFIER: US 6636041 B2

TITLE: Magnetic resonance apparatus having an optical fiber with a Bragg grating for measuring mechanical deformations

DATE-ISSUED: October 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arz; Winfried	Erlangen			DE
Drobnitzky; Matthias	Spardorf			DE

US-CL-CURRENT: 324/322; 324/300, 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 13. Document ID: US 6525537 B2

L13: Entry 13 of 23

File: USPT

Feb 25, 2003

US-PAT-NO: 6525537

DOCUMENT-IDENTIFIER: US 6525537 B2

TITLE: Magnetic resonance apparatus having a single-circuit cooling circulation system

DATE-ISSUED: February 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nerreter; Ulrich	Nuremberg			DE

US-CL-CURRENT: 324/322; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 14. Document ID: US 6441614 B1

L13: Entry 14 of 23

File: USPT

Aug 27, 2002

US-PAT-NO: 6441614

DOCUMENT-IDENTIFIER: US 6441614 B1

TITLE: Filler material for magnet resonant system self-shielded gradient coil assemblies

DATE-ISSUED: August 27, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Edelstein; William Alan	Schenectady	NY		
Hedeen; Robert Arvin	Clifton Park	NY		
Mantone; Anthony	Brookfield	WI		

US-CL-CURRENT: 324/318; 324/307, 324/309, 324/320, 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Drawings
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☐ 15. Document ID: US 6111412 A

L13: Entry 15 of 23

File: USPT

Aug 29, 2000

US-PAT-NO: 6111412

DOCUMENT-IDENTIFIER: US 6111412 A

TITLE: Gradient coil assembly and method of production of same

DATE-ISSUED: August 29, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Boemmel; Franz	Erlangen			DE
Schuster; Johann	Oberasbach			DE
Kaindl; Arthur	Erlangen			DE

US-CL-CURRENT: 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Drawings
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☐ 16. Document ID: US 6011394 A

L13: Entry 16 of 23

File: USPT

Jan 4, 2000

US-PAT-NO: 6011394

DOCUMENT-IDENTIFIER: US 6011394 A

TITLE: Self-shielded gradient coil assembly and method of manufacturing the same

DATE-ISSUED: January 4, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Petropoulos; Labros S.	Solon	OH		
Payton; Clarence E.	Chagrin Falls	OH		
Morich; Michael A.	Mentor	OH		

DeMeester; Gordon D.

Wickliffe

OH

US-CL-CURRENT: 324/318; 324/320

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Abstract	Claims	KMC	Draw. De
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☐ 17. Document ID: US 5793209 A

L13: Entry 17 of 23

File: USPT

Aug 11, 1998

US-PAT-NO: 5793209

DOCUMENT-IDENTIFIER: US 5793209 A

TITLE: Nuclear magnetic resonance imaging apparatus using asymmetric torque-free active shield gradient coils

DATE-ISSUED: August 11, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kondo; Masafumi	Kanagawa-ken			JP
Yui; Masao	Kanagawa-ken			JP

US-CL-CURRENT: 324/318; 600/422

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Abstract	Claims	KMC	Draw. De
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☐ 18. Document ID: US 5701075 A

L13: Entry 18 of 23

File: USPT

Dec 23, 1997

US-PAT-NO: 5701075

DOCUMENT-IDENTIFIER: US 5701075 A

TITLE: Magnetic resonance imaging shimming by superconducting gradient shield

DATE-ISSUED: December 23, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Xu; Bu-Xin	Florence	SC		
Tsavalas; Yannis P.	Clifton Park	NY		

US-CL-CURRENT: 324/318; 335/301

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Abstract	Claims	KMC	Draw. De
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☐ 19. Document ID: US 5661445 A

L13: Entry 19 of 23

File: USPT

Aug 26, 1997

US-PAT-NO: 5661445

DOCUMENT-IDENTIFIER: US 5661445 A

TITLE: Superconductive magnet assembly

DATE-ISSUED: August 26, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Larson, III; John D.	Palo Alto	CA		
Good; Jeremy A.	London			GB

US-CL-CURRENT: 335/216; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Figures	Abstract	Claims	KMC	Drawings
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☐ 20. Document ID: US 5539367 A

L13: Entry 20 of 23

File: USPT

Jul 23, 1996

US-PAT-NO: 5539367

DOCUMENT-IDENTIFIER: US 5539367 A

TITLE: Superconducting gradient shields in magnetic resonance imaging magnets

DATE-ISSUED: July 23, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Xu; Bu-Xin	Florence	SC		
Tsavalas; Yannis P.	Florence	SC		
Eckels; Phillip W.	Florence	SC		

US-CL-CURRENT: 335/301; 324/318, 335/216, 361/19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Figures	Abstract	Claims	KMC	Drawings
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☐ 21. Document ID: US 5424643 A

L13: Entry 21 of 23

File: USPT

Jun 13, 1995

US-PAT-NO: 5424643

DOCUMENT-IDENTIFIER: US 5424643 A

TITLE: Magnetic resonance gradient sheet coils

DATE-ISSUED: June 13, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Morich; Michael A.	Mentor	OH		
Patrick; John L.	Chagrin Falls	OH		
DeMeester; Gordon D.	Wickliffe	OH		

US-CL-CURRENT: 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw De
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☐ 22. Document ID: US 5201184 A

L13: Entry 22 of 23

File: USPT

Apr 13, 1993

US-PAT-NO: 5201184

DOCUMENT-IDENTIFIER: US 5201184 A

TITLE: Method and apparatus for precooling the helium tank of a cryostat

DATE-ISSUED: April 13, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Roth; Gerhard	Karlsruhe			DE

US-CL-CURRENT: 62/47.1; 62/50.2, 62/51.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw De
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☐ 23. Document ID: US 4660013 A

L13: Entry 23 of 23

File: USPT

Apr 21, 1987

US-PAT-NO: 4660013

DOCUMENT-IDENTIFIER: US 4660013 A

TITLE: Compact whole body resistive magnetic resonance imaging magnet

DATE-ISSUED: April 21, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Laskaris; Evangelos T.	Schenectady	NY		
Chari; Madabushi V.	Burnt Hills	NY		

US-CL-CURRENT: 335/299; 324/318, 335/301

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw De
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Term	Documents
GRADIENT	332685
GRADIENTS	81772
COOL\$3	0
COOL	570601
COOLA	900
COOLAA	1
COOLAAT	18
COOLAA7	1
COOLAB	2
COOLABD	1
COOLABL	2
(L12 AND (COOL\$3 WITH GRADIENT)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	23

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